**ChE 320 Homework 7:**

**Due Wednesday, Mar 01, 2017 by 11:30 am at EE129**

**Instructions:** Please complete the following problems on separate, numbered pages. Use the homework cover page available in Blackboard. Start each problem on a new page and *write only on one side of a piece of paper.* ***Only one side of a piece of paper will be graded.*** Circle or box your answer. Do not forget to show all work and state all assumptions that you make.

*THESE PROBLEMS ARE REQUIRED AND TO BE SUBMITTED FOR GRADING IN HARDCOPY FORM.*

**Problem 1:** Montgomery, Runger and Hubele, Problem 4-58 (p. 198 of the 5th Edition of the text).

**Problem 2:** Montgomery, Runger and Hubele, Problem 4-66 (p. 204 of the 5th Edition of the text).

**Problem 3:** Montgomery, Runger and Hubele, Problem 4-70 (p. 205 of the 5th Edition of the text).

**Problem 4:** Montgomery, Runger and Hubele, Problem 4-102 (p. 222 of the 5th Edition of the text).

**Problem 5:** Montgomery, Runger and Hubele, Problem 4-105 (p. 222 of the 5th Edition of the text).

**Problem 6:** Montgomery, Runger and Hubele, Problem 4-108 (p. 223 of the 5th Edition of the text).with the following changes:

1. Solve part a. through f. only.
2. Obtain the probability plot using the method described in Fig. 3.25 and Table associated with it. Excel may be used for elementary calculations (for this problem only) and the printout of the plot should be submitted along with the calculation table.

**Problem 7:** Montgomery, Runger and Hubele, Problem 4-128 (p. 199 of the 5th Edition of the text).

**Problem 8:** Montgomery, Runger and Hubele, Problem 4-136 (p. 227 of the 5th Edition of the text).

*THESE PROBLEMS ARE RECOMMENDED FOR PRACTICE AND* ***SHOULD NOT BE SUBMITTED***

Problem **4-82** from Chapter 4 of the text.

Problem **4-98** from Chapter 4 of the text.

Problem **4-117** from Chapter 4 of the text.